

POLYLACTIC ACID RESIN COMPOSITION

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Applicant: MITSUI CHEMICALS INC

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- European:

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Abstract of JP11116788

PROBLEM TO BE SOLVED: To obtain a resin compsn. which has both softness and heat resistance by compounding a high-molecular component comprising polylactic acid and a biodegradable aliph. polyester in a specified ratio with a specified amt. of a biodegradable plasticizer. SOLUTION: This compsn. contains 100 pts.wt. polymer component comprising 90-50 wt.% polylactic acid and 10-50 wt.% biodegradable polyester having an m.p. of 80-250 deg.C, 5-25 pts.wt. biodegradable plasticizer, and if necessary an inorg. filler (e.g. silica), a lubricant (e.g. an aliph. carboxamide), an antioxidant, a heat stabilizer, an ultraviolet absorber, etc., can be formed into a film having a thickness of 5-1,000 μm, and has an elastic modulus of 2,000-10,000 kgf/cm² and a heat resistance temp. of 60-120 deg.C. The biodegradable aliph. polyester has a wt. average mol.wt. of 10,000-1,000,000, and its examples are polyethylene oxalate and polybutylene succinate. The biodegradable plasticizer is selected from among triacetylene, acetyltributyl citrate, dibutyl sebacate, etc.

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